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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Cancelled).
2. (Currently amended): A computer-readable medium having computer-executable instructions to cause a computing system to perform a method comprising:
 - creating a data table in a server database;
 - creating a workflow table as part of a database schema in the server database, ~~wherein~~ the workflow table is associated with the data table, ~~wherein~~ each row in the workflow table represents a workflow step containing workflow rules and associated code defined by script functions;
 - receiving a data modification request in the server database;
 - invoking a workflow engine using server database triggers; and
 - evaluating a condition and executing an action for at least one workflow step.
3. (Currently amended): The method of claim 2, ~~wherein~~ evaluating a condition and executing an action for at least one workflow step includes using a script engine which is invoked by the workflow engine.
4. (Currently amended): A workflow system comprising:
 - a server database that includes including a data table and an associated workflow table, the data table includes workflow triggers, the workflow table comprises at least part of an extended database schema;
 - a workflow extended store coupled to the server database and to the workflow triggers, the workflow triggers invoke the workflow extended store;
 - a workflow engine coupled to the server database and to the workflow extended store; and

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a script engine coupled to the workflow engine.

5. (Currently amended): The workflow system of claim 4, ~~wherein~~ the workflow table is communicatively coupled to the workflow engine.
6. (Currently amended): The workflow system of claim 4, ~~wherein~~ each column in the data table comprises a workflow state.
7. (Currently amended): The workflow system of claim 4, ~~wherein~~ each row in the workflow table comprises a workflow step.
8. (Currently amended): The workflow system of claim 4, ~~wherein~~ the workflow table comprises a set of workflow rules and associated code to be executed by the workflow engine, ~~wherein~~ a workflow table is defined for each data table that needs to enforce integrity of data changes.
9. (Currently amended): The workflow system of claim 4, ~~wherein~~ the extended store comprises a data set having the necessary information to enforce a workflow step.
10. (Currently amended): The workflow system of claim 4, ~~wherein~~ the workflow engine receives information on a workflow event from the extended store and maps the information against a cached copy of the workflow table and executes an appropriate workflow step.
11. (Currently amended): A workflow system comprising:
a server database ~~including that includes~~ a workflow enabled data table and an associated workflow table, the workflow table is part of an extended database schema, ~~wherein~~ each row in the workflow table comprises a workflow step, and the workflow enabled data table includes workflow triggers;

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a workflow extended store coupled to the server database, where data modifications submitted to the workflow enabled data table invokes the workflow extended store;

a workflow engine coupled to the server database, to the workflow extended store, and to the workflow table; and

a script engine coupled to the workflow engine.

12. (Currently amended): The workflow system of claim 11, ~~wherein~~ each workflow step is triggered by a workflow event selected from the group comprising state events, transition events, and timeout events.

13. (Currently amended): The workflow system of claim 12, ~~wherein~~ a state event is associated with a single workflow state and is executed every time the event associated with the workflow state is triggered.

14. (Currently amended): The workflow system of claim 13, ~~wherein~~ the execution of a state event depends on how a workflow state is entered or exited.

15. (Currently amended): The workflow system of claim 12, ~~wherein~~ a transition event is associated with a change from a current workflow state to a new workflow state, ~~wherein~~ the current and the new workflow states are defined by a transition workflow step, and ~~wherein~~ the transition event is executed upon a requested state transition where the current and the new workflow state match the transition workflow step.

16. (Currently amended): The workflow system of claim 12, ~~wherein~~ a timeout event is associated with a timeout job, ~~wherein~~ the timeout event can be either a state event or a transition event, and ~~wherein~~ the timeout event is triggered by the timeout job.

17. (Currently amended): A workflow system comprising:

a server database that includes including a data table and an associated workflow table, the workflow table is included in a database schema, ~~wherein~~ each row in the

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workflow table comprises a workflow step, and ~~wherein~~ the system further includes workflow triggers defined on the data table;

a workflow extended store communicatively coupled to the server database, ~~wherein~~ the workflow triggers analyze a data modification request submitted to the data table and invoke the extended store;

a workflow engine communicatively coupled to the server database, to the workflow extended store, and to the workflow table; and

a script engine communicatively coupled to the workflow engine.

18. (Cancelled).

19. (Currently amended): The workflow system of claim 17, ~~wherein the system~~ further includes a session object communicatively coupled to the server database, ~~wherein~~ the session object comprises a set of properties for a workflow event, a set of data on the current user, a database user list, and a data set of user permission.

20. (Currently amended): The workflow system of claim 19, ~~wherein the system~~ further includes a number of workflow support functions which operate in conjunction with the session object and implement a number of workflow tasks including sending email and finding a user's manager.

21. (Currently amended): The workflow system of claim 17, ~~wherein the system~~ further includes a timeout agent implemented as a server job, ~~wherein~~ the timeout agent is scheduled to run with a definable frequency, and ~~wherein~~ the timeout agent scans the server database and executes a timeout workflow event when the database indicates such a timeout workflow event is due.

22. (Currently amended): The workflow system of claim 21, ~~wherein~~ the timeout agent performs an update in the data table and triggers an association workflow action upon timeout workflow events which define a state transition.

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23. (Currently amended): A computing method comprising:
creating a data table in a server database;
creating a workflow table as part of an extended database schema in the server database, ~~wherein~~ the workflow table is associated with the data table, ~~wherein~~ each row in the workflow table represents a workflow step;
receiving a data modification request in the server database;
invoking a workflow engine using server database triggers; and
evaluating a condition and executing an action for each workflow step using a script engine which is invoked by the workflow engine.
24. (Currently amended): The method of claim 23, ~~wherein~~ invoking the workflow engine includes comparing the data modification request with a workflow definition in the workflow table and determining the appropriate workflow step to be executed.
25. (Currently amended): The method of claim 23, ~~wherein~~ evaluating a condition and executing an action for each workflow step includes checking execution permissions on each workflow step.
26. (Currently amended): The method of claim 23, ~~wherein~~ creating a workflow table with each row in the workflow table representing a workflow step includes defining a condition and an action for each workflow step using script functions.
27. (Cancelled).
28. (Currently amended): The method of claim 23, ~~wherein~~ evaluating a condition and executing an action for each workflow step includes committing the data modification request to the data table in the server database.
29. (Currently amended): A computer comprising:
a processor;
a computer-readable medium;

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a server database having a workflow enabled data table and an associated workflow table, the workflow enabled data table includes workflow triggers, the workflow table comprises at least part of an extended database schema;

a workflow extended store coupled to the server database and the workflow triggers;

a workflow engine coupled to the server database and to the workflow extended store; and

a script engine coupled to the workflow engine.

30 – 39 (Cancelled).